INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24183

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A6 1K 38/00 US CL : 514/2; 930/120						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/2; 930/120 •						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN, EAST, PubMed						
C. DOCUMENTS CONSIDERED TO BE RELE-VANT						
Category *	Citation of document, with indication, where a	propriate	, of the relevant passages	Relevant to claim No.		
A	US 5942489 A (Schally et al.) 24 August 1999 (24.08	3.1999), e	ntire document	1-2, 5-28		
A	Kovacs M, Schally AV, Lee EJ, Busto R, Armatis P, Groot K, Varga JL Inhibitory effects of antagonistic analogs of GHRH on GH3 pituitary cells overexpressing the human GHRH receptor. J Endocrinol. Nov 2002, 175(2), 425-34, especially page 426.			5-28		
A	Schally AV, Comaru-Schally AM, Plonowski A, Nag analogs in the therapy of prostate cancer Prostate. Oc especially pagel 61	-	=	8-28		
A	Rekasi Z, Varga JL, Schally AV, Halmos G, Groot K, Czompoly T. Antagonistic actions of analogs related to growth hormone-releasing hormone (GHRH) on receptors for GHRH and vasoactive intestinal peptide on rat pituitary and pineal cells in vitro. Proc Natl Acad Sci U S A. Feb 2000,- 97(3), 1218-23, especially pages 1220 and 1223.		5-28			
A	US 6057422 A (Schelly et al.) 2 May 2000 (02 05.2000), abstract, column 4, lines 19-32; column 9, lines 56-67; column 20, claim 1.		1-2, 5-28			
Further	r documents are listed in the continuation of Box C.	D	See patent family annex.			
* S	special categories of cited documents	"T"	later document published after the inter			
"A" document defining the general state of the art which is not considered to be of particular relevance			date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E" earlier ap	plication or patent published on or after the international filing date	"X"	document of particular relevance, the considered novel or cannot be consider when the document is taken alone			
establish specified	" document which may throw doubts ou Φποπτy clatm(s)-or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document	t referring to < n oral disclosure, use, exhibition or other means		being obvious to a person skilled m the	: art		
"P" document published prior to the international filing date but later than ω "&" pπonty date claimed		"&"	document member of the same patent	family		
Date of the actual completion of the international search		Date of mailing of the international search report £ Ü DtC 2005				
24 February 2005 (24,02.2005)						
Name and mailing address of the ISA/US		Authorized officer — ml Phul				
Mail Stop PCT, Attn ISA/US Commissioner for Patents			Bruce Campell, Ph.D:			
P.O Box 1450			Telephone No. 571-272-1600			
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Box No. 11	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internation	al search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
· —	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Claims Nos.: because they relate to parts of the intertiational application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. Ill	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
Please See Con	nal Searching Authority Found multiple inventions in this international application, as follows: Itinuation Sheet
	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
	As all searchable clajms could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: Please See Continuation Sheet
	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Pro	The additional search fees were accompanied by the applicant's protest. No protest.accompanied the payment of additional search fees.
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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-4, 8-14, and 22-28, drawn to the peptide having the formulae recited in the instant claim 1, and pharmaceutically acceptable salts thereof. Furthermore, the use of the peptide having the formulae recited in the instant claim 1 for the production of a pharmaceutical composition, and a pharmaceutically administrable composition consisting essentially of the peptide having the formulae recited in the instant claim 1.

Group II, claim(s) 5-7, 8-14, and 22-28, drawn to the peptide selected from the group consisting of sequences listed in the instant claims 5-7. Furthermore, the use of the peptide selected from the group consisting of sequences listed in the instant claims 5-7 for the production of a pharmaceutical composition, and a-pharmaceutically administrable composition consisting essentially of the peptide selected from the group consisting of sequences listed in the instant claims 5-7.

Group III, claim(s) 15-21, drawn to-the second process of using the peptide recited in Groups I and II for administering to a patient.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In order for more than one species to be examined, the appropriate additional examination fees must be paid. The species are as follows:

R1 group, R2 group, and A0-A30 groups, as recited in claims 1-2. Furthermore, peptides 2-16, 21-22, 30-31, 33-43, 45-60, 62-65, 67-82, and 84-121. For examination, please select a single peptide number or select a specific species for each R and A groups within the scope set forth in claims 1+.

The claims are deemed to corresponiEl to the species listed above in the following manner:

R1 and R2 groups, and A0-A3O groups correspond to claims 1-2. Peptides 2-16, 21-22, 30-3 1, 33-43, 45-60, 62-65, 67-82, and 84-121 correspond to claims 3-7.

The following claim(s) are generic: 1-28.

The inventions listed as Groilps J-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The inventions listed as Groups r-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I claims is the claimed peptide sequence represented by the formula recited in claim I and a pharmaceutically acceptable salts thereof, these special features are not present in Group II as each of the sequences lack a core structure that is shared between them. As for Group III, 37 CFR 1.475 (d) states: If multiple products, processes of manufacture or uses are claimed, the first invention of the category first mentioned in-the-claims-of-the-application -and-the-first-recited-invention -of-each-of-the-other-categories-related-thereto-will-be-considered-as-the-main—

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invention in the claims, see PCT Article 17(3)(a) and § 1.476(c). Two methods of use are claimed, the method of use of a compound of any claims 1 or 5 for the production of a pharmaceutical composition (claims 8-14), and the method of use by administering to a patient a suppressively effective amount of a compound of any of claims 1 or 5 (claims 15-21). According to 37 CFR 1.475 (d), the first method of use (claims 8-14) will be considered.

use (children of 17) with the contraction			
The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:			
There is no core sequence between the peptides, therefore, no common structure is present.			
Continuation of Box III Item 3: 1-2 and 5-28 (all searched in part; for claims 1 and 2 (and their dependent claims), in reference to the first invention (refer to PCT/ISA 206), for claims 5-28, in reference to peptides 30-42, 62-64, 84, and 85)			